

Terrapin Carapace

by Arya Akhavan (August 2013)

Angles for R.I. = 1.620

53 + 12 girdles = 65 facets

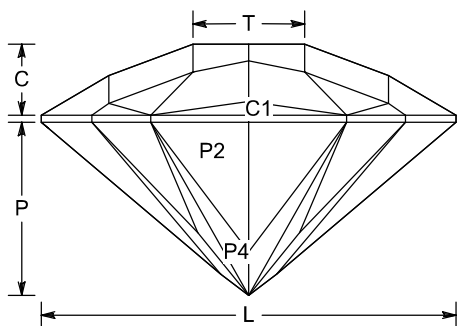
2-fold, mirror-image symmetry

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$L/W = 1.097$ $T/W = 0.296$ $U/W = 0.171$

$P/W = 0.457$ $C/W = 0.187$

$Vol./W^3 = 0.205$



PAVILION

P1	43.24°	17-31-65-79	Cut to centerpoint.
P2	43.34°	03-13-35-45- 51-61-83-93	Meet at culet.
G1	90.00°	17-31-65-79	Set stone length.
G2	90.00°	03-13-35-45- 51-61-83-93	Level girdle.
P3	42.69°	15-33-63-81	Meet P1, P2, G1, G2
P4	42.42°	04-12-36-44- 52-60-84-92	Meet P2, G2; culet

CROWN

C1	35.07°	03-13-35-45- 51-61-83-93	Set girdle width.
C2	33.00°	17-31-65-79	Level girdle.
C3	27.89°	04-12-36-44- 52-60-84-92	Meet G2, C1
C4	25.26°	14-34-62-82	Meet C1, C2, C3
C5	18.35°	08-40-56-88	Meet C3, C4
T	0.00°	Table	Meet C4, C5

Originally, I was just experimenting to add more checkerboards to my Tessellation suite, but this particular design turned out much more turtle-like than I expected. It's got surprisingly good performance as well! Works in materials from quartz to CZ (RI = 1.54 - 2.16), but I prefer earthy tourmaline. May need optimizing for garnets. Suggested length = 8-15 mm

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